



AYRLITE® 2022TP

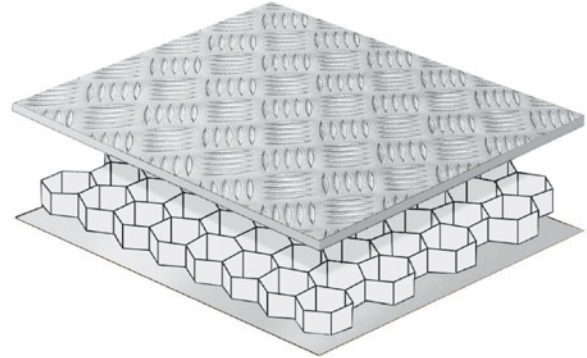
Aluminium Treadplate Faced, Aluminium Honeycomb Panel

DESCRIPTION

AYRLITE® 2022TP is an aluminium honeycomb panel **faced with aluminium treadplate sheets**. The panel is very lightweight and non-combustible.

Strain-hardened hexagonal cell aluminium honeycomb has optimum mechanical properties and is able to carry shear loads at much lower weight than foams or other core types.

AYRLITE® 2022TP has been designed for general purpose industrial and marine applications where a lightweight treadplate surface is required.



ACCREDITATIONS



- ABS Type Approved Product



- High Speed Naval Craft Guide Approved



- US Coast Guard Certificate of Approval, as a Non-Combustible material



- Transport Canada Approved Product



- IMO MSC 61(67) Fire Test Procedures Code compliant



- Meets IMO Res.A.653(16) Surface Spread of Flame test

- Meets ISO 1182 requirements for Non- Combustibility of aluminium honeycomb core

- Aluminium honeycomb core meets the requirements of AMS-C-7438 for salt fog anti-corrosion performance

FEATURES

- Low weight
- High stiffness
- Easy to fabricate
- Recyclable
- Treadplate and mill finish aluminium face sheets are 5000 series alloy, for maximum strength and anti-corrosion performance
- Aluminium back face sheets are available in a range of thicknesses from 0.012" (0.3mm) upwards. 0.020" (0.5mm) is the standard thickness
- Panels can be produced in different aluminium treadplate thicknesses including 0.064"/0.108" (1.6mm/2.7mm), 0.08"/0.124" (2.0mm/3.1mm) and 0.12"/0.164" (3.0mm/4.1mm)
- Brushed and anodised aluminium finishes are also available
- Aluminium honeycomb cell size is 1/4" (6.35mm)
- Wide selection of AYRLITE® Joiners & Assembly Accessories are available



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PHYSICAL AND MECHANICAL PERMORMANCE

Thickness (inches mm)	Weight (lb/ft2 kg/m2)	Long Beam		Climbing Drum Peel (MPa)	Flatwise Compression (MPa)
		Max Load (Newtons)	Deflection at Max Load (inches mm)		
0.4 10	1.4 7.0	1054	0.98 25	1.2	2.6
0.8 20	1.6 7.6	2005	0.47 12	1.2	2.6
1.2 30	1.7 8.1	2776	0.35 9	1.2	2.6

Typical room temperature properties for 0.064"/0.108" (1.6mm/2.7mm) aluminium treadplate to one face, 0.04" (0.5mm) mill finish aluminium to the other face, panels.

AVAILABILITY

Standard Dimensions
96" x 48" (2400mm x 1200mm)
Panel Thickness
Made to order, minimum thickness 1/4" (6mm)

SAFETY

As with cutting operations on most materials, avoid inhalation and eye contact with machining dust. Wear protective equipment such as hearing protection and safety glasses during any cutting operations. Use machine guards. Wear gloves to avoid cuts. Wash hands before eating, drinking or smoking and after finishing work.

APPLICATIONS

- Hatch covers
- Floor sections
- Scaffold platforms
- Campervan fabrication
- Platforms
- General industrial and marine applications

FABRICATION

AYRLITE® 2022TP can be easily cut and drilled with standard tools, such as circular saws, routers etc. Negative rake blades are recommended for circular saws. Caution should be taken in case of aluminium burrs on cut edges. Face sheets must be kept clean and free from any oil or grease before painting or bonding.

Components and complete interiors can be fabricated using AYRLITE® Joiners & Assembly Accessories and polyurethane paste adhesives.



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